

# [NO<sub>x</sub>, Hg, AND SO<sub>2</sub> REMOVAL USING AMMONIA]

## Abstract of Disclosure

A process and apparatus for removing SO<sub>2</sub>, O, and NO<sub>2</sub> from a gas stream having the steps of oxidizing a portion of the NO in the flue gas stream to NO<sub>2</sub>, scrubbing the SO<sub>2</sub>, NO, and NO<sub>2</sub> with an ammonia scrubbing solution, and removing any ammonia aerosols generated by the scrubbing in a wet electrostatic precipitator. The process can also remove Hg by oxidizing it to HgO and removing it in the wet electrostatic precipitator. Ammonium sulfate, a valuable fertilizer, can be withdrawn from the scrubbing solution.

## Figures